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(54) POLYPEPTIDE

(57)Abstract:

PURPOSE: To provide a new transformed human TNF having antitumor action similar to that of human TNF or its conversion product and free from promoting action on cancer metastasis in contrast with human TNF.

CONSTITUTION: The objective polypeptide is a tumor necrosis factor polypeptide or its conversion product having an amino acid sequence expressed by the amino acids from the 1st Ser to the 155th Leu of the formula provided that the amino acid sequence from the 1st Ser to the 8th Asp or the corresponding amino acid sequence of the conversion product contains at least one amino acid sequence of Arg-Gly-Asp and is substituted with an amino acid sequence containing 3 to 16 amino acids. The present invention also relates to a conversion product of the polypeptide, a plasmid, a transformant, their production process, a pharmaceutical composition and a DNA.

Ser Ser Ser Arg Thr Pro Ser Asp Leu Pro Val Ala His Val Val Ala
1 5 19 15
Asn Pro Gln Ala Gln Gly Ala Leu Gln Tyr Leu Asn Arg Arg Ala Asn
31 35 39
Ala Leu Leu Ala Asn Gly Val Gln Leu Arg Asp Asn Gln Leu Val Val
43 47 51
Pro Ser Gln Gly Leu Tyr Leu Ile Tyr Ser Gln Val Leu Phe Arg Gly
53 57 61
Gln Gly Gln Pro Ser Tyr His Val Leu Thr His Thr Ile Ser Arg
63 67 71 75 79
Ile Ala Val Ser Tyr Gln Thr Lys Val Asn Leu Ser Ala His Lys
83 87 91
Ser Pro Gln Gln Arg Gln Thr Pro Gln 2 Ala Gln Ala Lys Pro Thr
100 104 108 112
Tyr Gln Pro Ile Tyr Leu Gly Gly Val Phe Gln Leu Gln Lys Gly Asp
115 119 123 127
Arg Leu Ser Ala Gln Ile Asn Arg Pro Asp Tyr Leu Asp Phe Ala Gln
130 134 138 142
Ser Gly Gln Val Tyr Phe Gly Thr Phe Ala Phe
146 150 154

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